Lesson 2

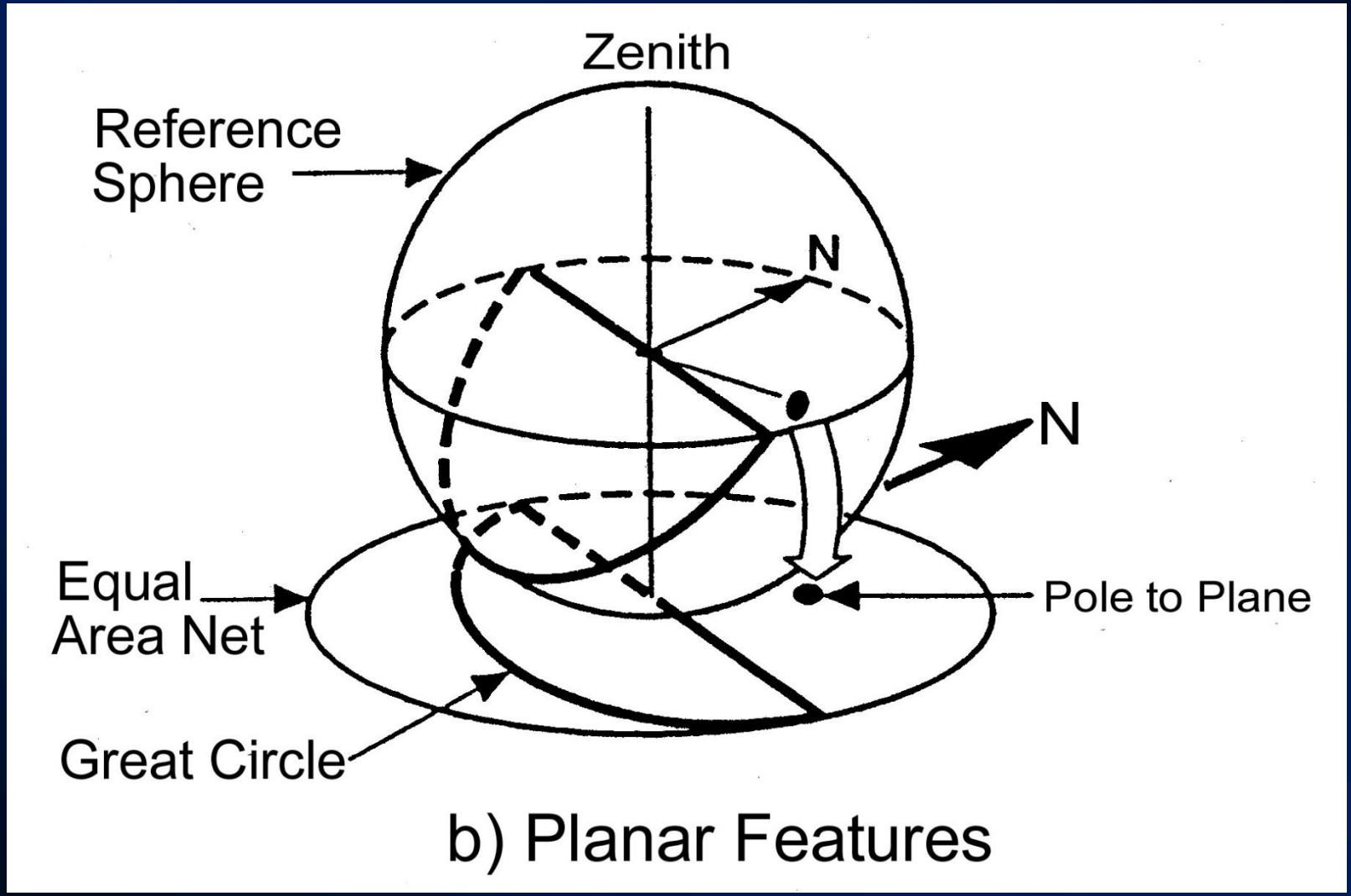
Part 2

STEREOGRAPHIC PLOTTING

Analysis of Structural Geology

- Stereographic Projection
- Orientations Expressed as Dip/Direction
- No Size or Location Data

Projections of Linear/Planar Features

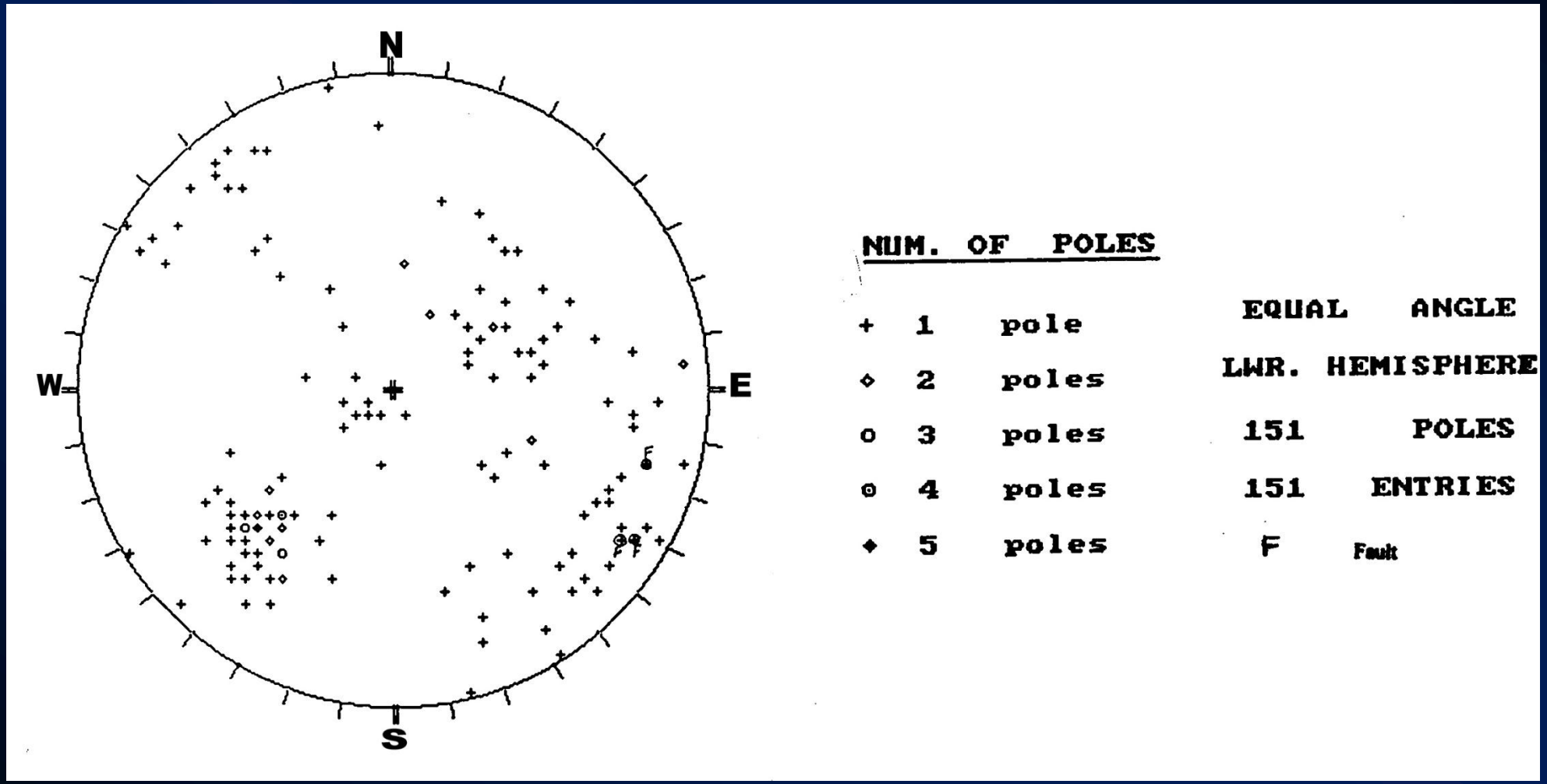


STUDENT EXERCISE 1A – STEREONET PLOTS

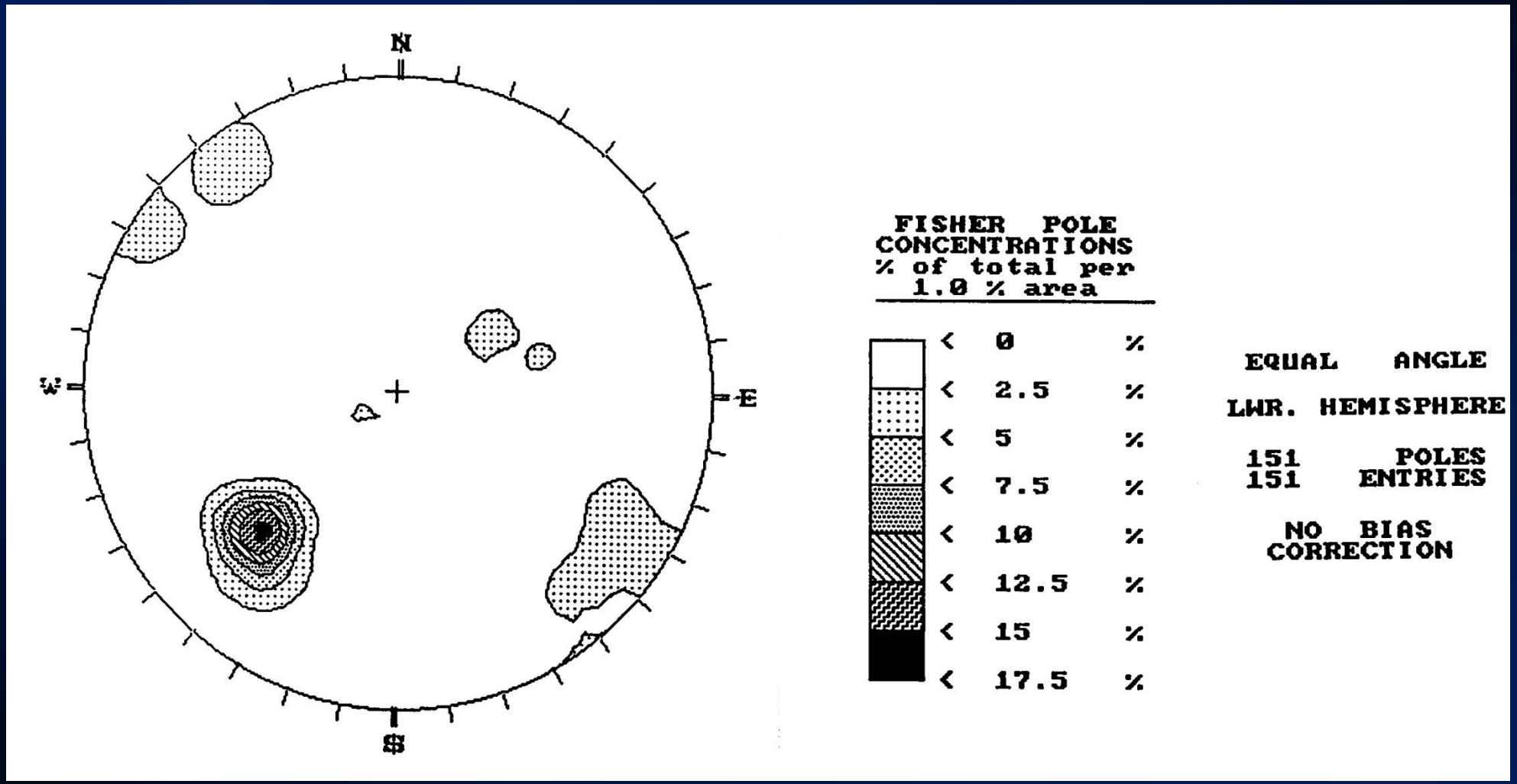
Objectives

- Plot stereonets of dip and dip direction measurements
- Analyze stereoplots to show intersection between planes
- Demonstrate applications to stability analysis

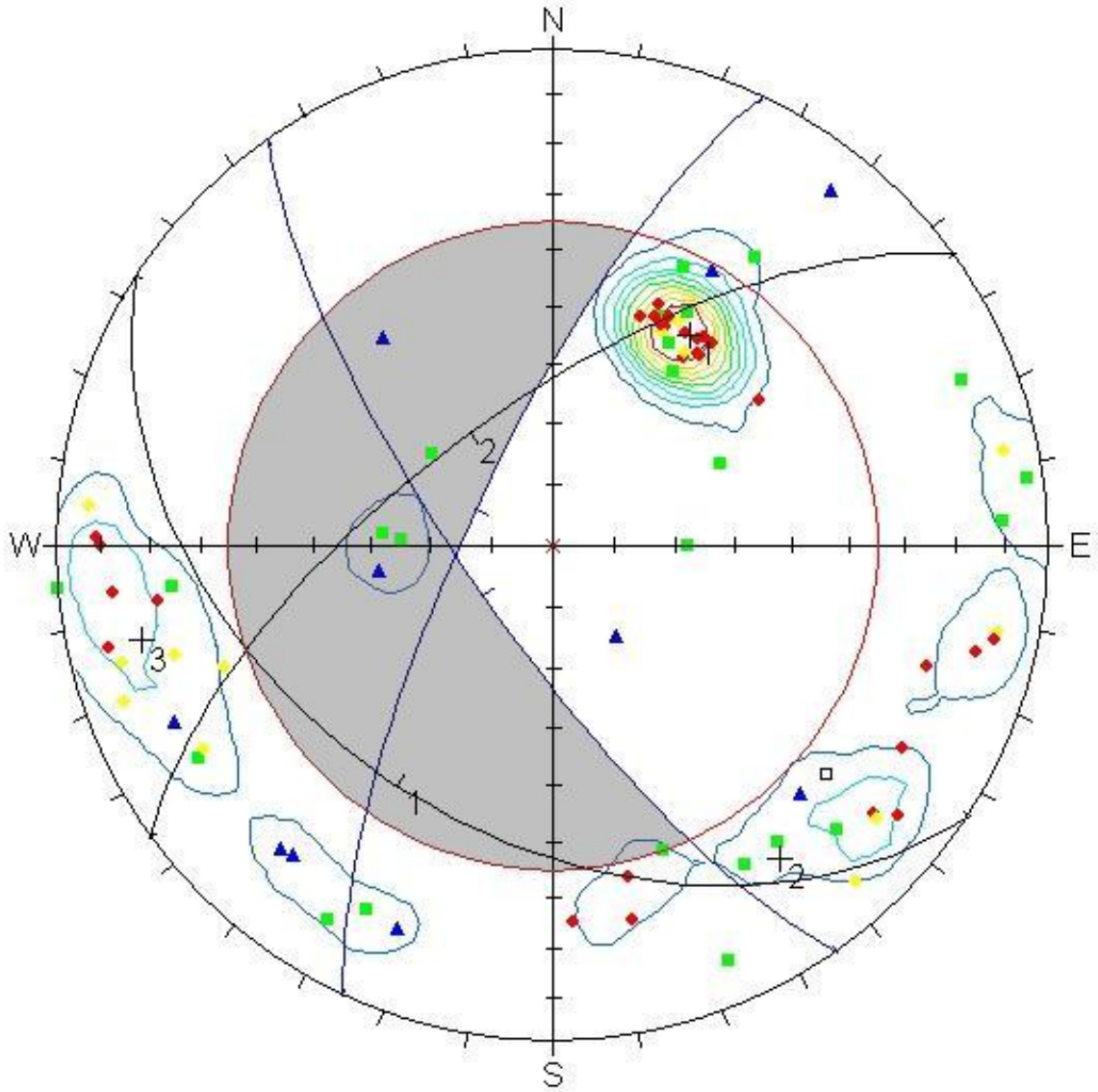
Stereographic Plot of Poles



Stereographic Contour Plot of Poles



Symbolic Pole Plot with Contour Overlay

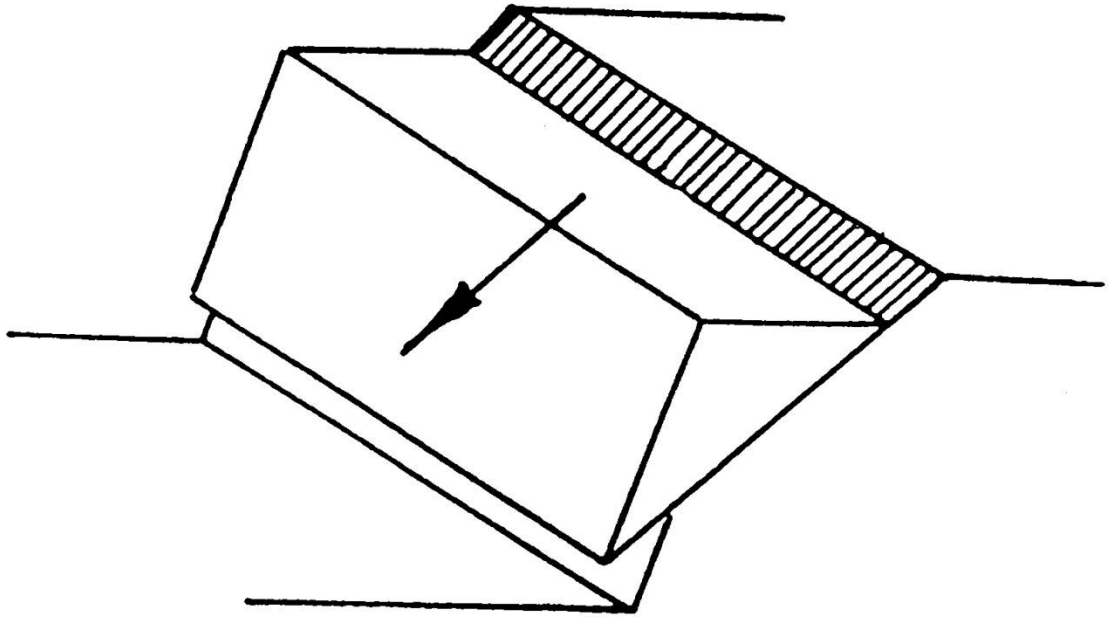


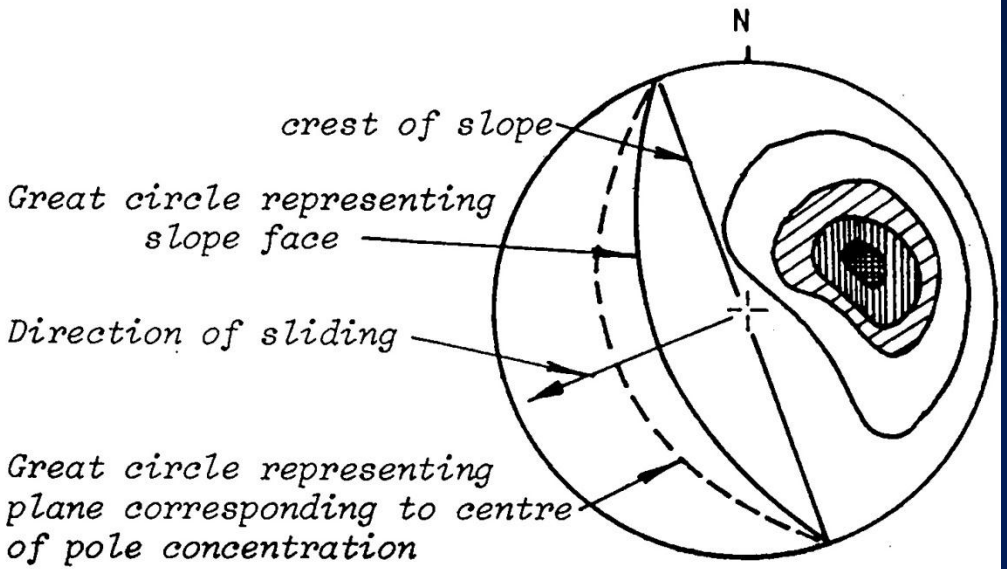
PERSISTENCE

	0.00 ~ 1.00 [0]
▲	1.00 ~ 2.00 [10]
■	2.00 ~ 3.00 [24]
●	3.00 ~ 4.00 [14]
◆	4.00 ~ 5.00 [30]
□	Others [1]

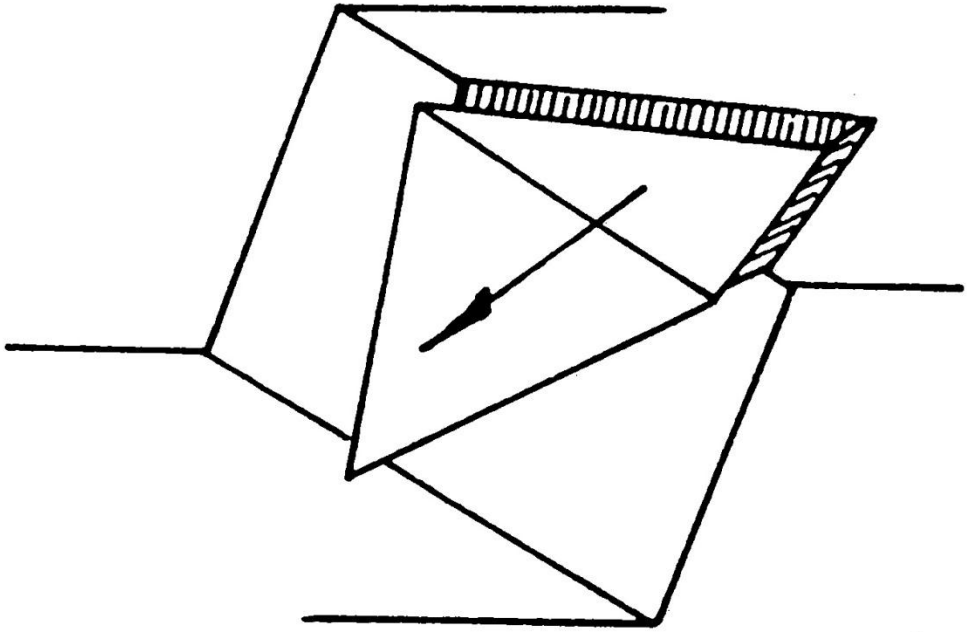
Equal Area
Lower Hemisphere
79 Poles
79 Entries

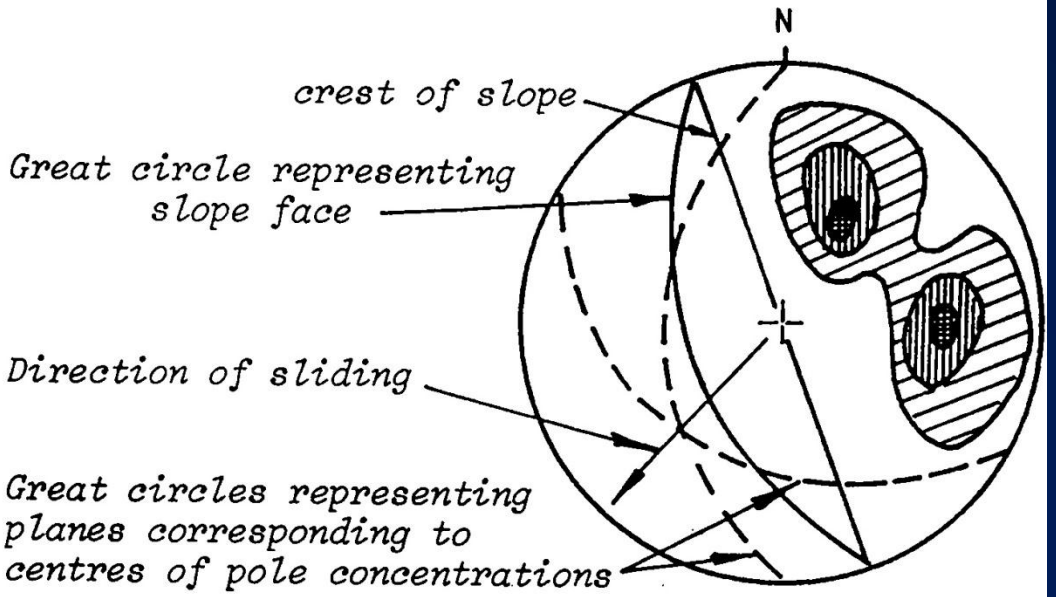
Stereoplot of Plane Failure



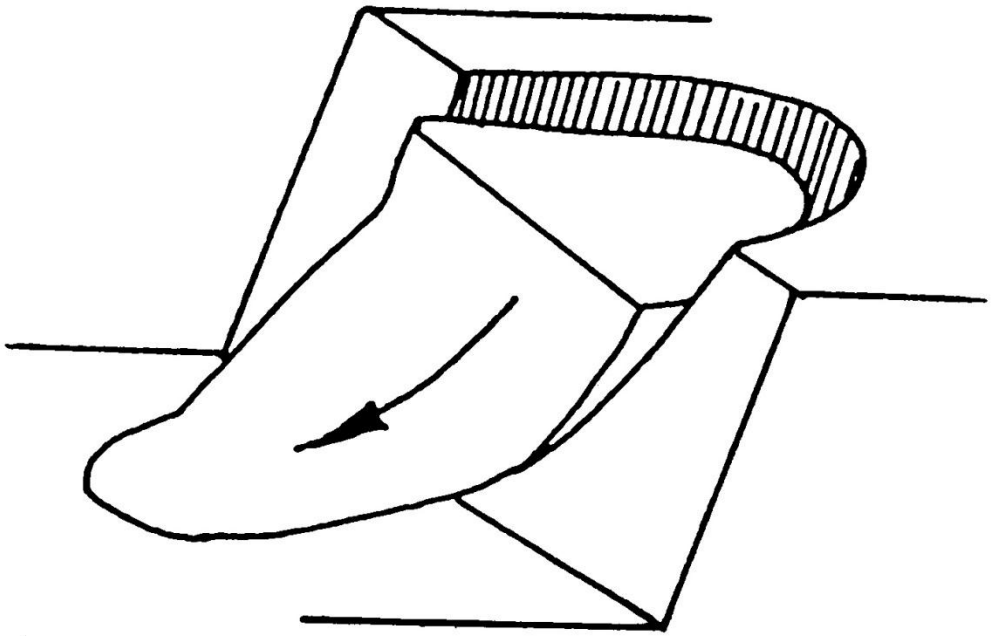


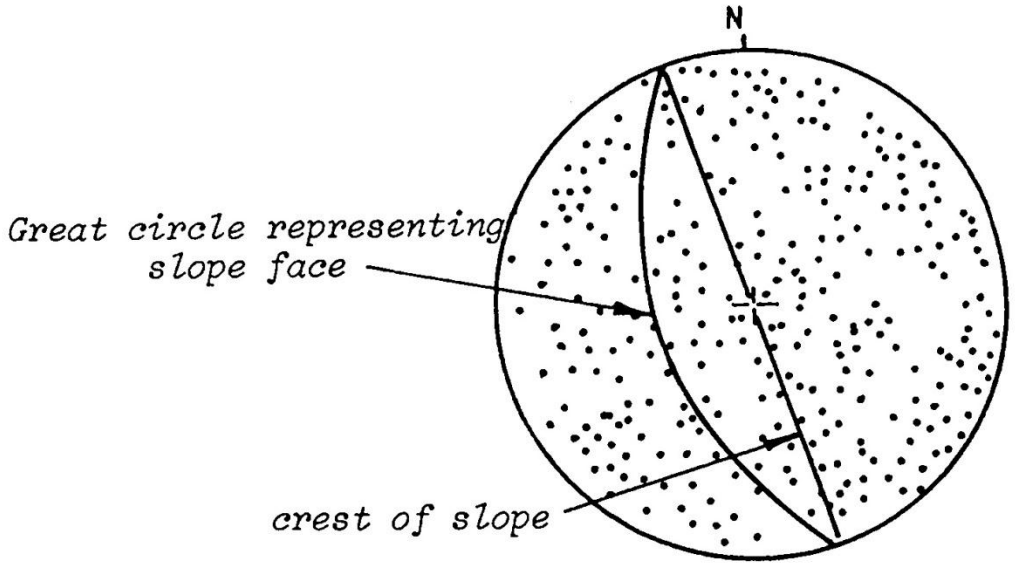
Stereoplot of Wedge Failure



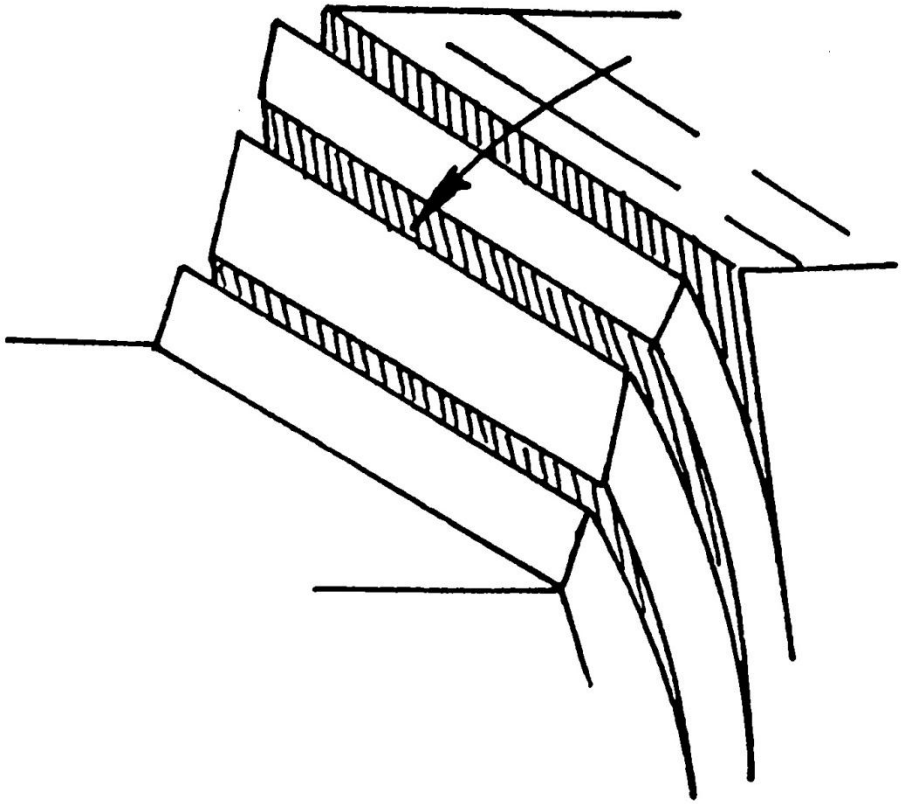


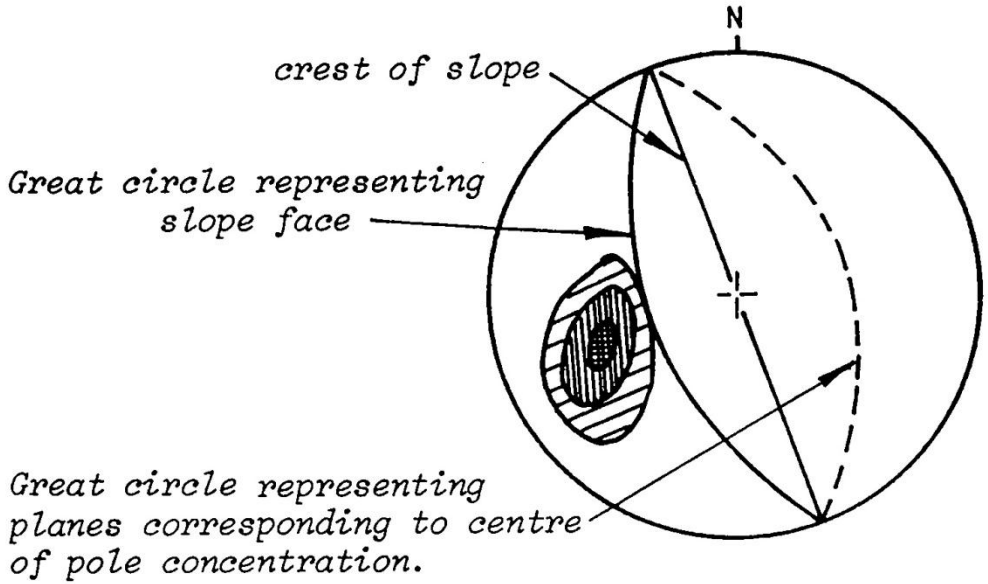
Stereoplot of Circular Failure





Stereoplot of Toppling Failure





LESSON 2 – GEOLOGICAL DATA COLLECTION and STEREOGRAPHIC PLOTTING

Learning Outcomes -

- List important geological parameters of discontinuities;
- Plot and analyze structural orientation (stereonet) data.